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TI Preparation of discoloration-free pyrrolidone compositions from amines and  $\gamma$ -butyrolactone

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SO Jpn. Kokai Tokkyo Koho, 5 pp.

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AB Title compns. are prepd. by treatment of  $\gamma$ -butyrolactone (I) contg.

(A) no impurities showing higher UV absorbance than that of I, (B)

$\leq 20$  impurity compds. detected at  $\leq 10$  ppm by gas chromatog.

using a fused silica column chem. bonded with polyethylene glycol, and/or

(C)  $\leq 15$  impurity compds. detected at  $\leq 10$  ppm by gas

chromatog. using a fused silica column chem. bonded with

bis(cyanopropyl)methylsilicone, with ammonia, primary, secondary, and/or

tertiary amines. Thus, I satisfying the above conditions was autoclaved

with aq. MeNH<sub>2</sub> at 240.degree. for 5 h to give N-methylpyrrolidone contg.

$\leq 5$  ppm ionic impurities (e.g. HCO<sub>2</sub>H, AcOH, propionic acid, enanthic acid).

IC ICM C07D201-08

ICS C07D207-267

DT Patent

LA Japanese